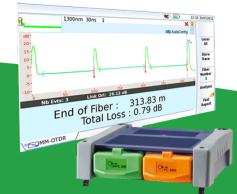
JDSU T-BERD 4000 4146 Quad OTDR Specs

Provided by www.AAATesters.com





Quad OTDR Module

T-BERD®/MTS-2000, -4000, -5800 Platforms

The JDSU Quad OTDR module is the ideal test tool for installers/ contractors, wireless service providers, or any user dealing with both single-mode and multimode applications every day. It is perfect for use in installing, turning up, and maintaining premises and enterprise, access, metro, and wireless fronthaul/backhaul networks.

The JDSU Quad OTDR module features fast acquisition time, sharp resolution, up to a 26 dB multimode dynamic range, and up to a 37 dB single-mode dynamic range for installing and maintaining fiber links. Its integrated light source and power meter, accessible through both OTDR ports (multimode and single-mode), let users quickly identify fiber without switching ports and conduct a full range of fiber certification tests.

The Quad module's optical performance combined with the T-BERD/MTS platform's complete suite of features ensures that testing is done right-the first time.

Standard test features include:

- Automatic macrobend detection •
- Summary results table with pass/fail analysis
- Bidirectional OTDR analysis
- FastReport on-board report generation •





T-BERD/MTS-5800* handheld

test instrument for testing 10 G

T-BERD/MTS-2000 one-slot handheld modular platform for testing fiber networks

**For Tier 1 certification, see the JDSU Certifier40G

Ethernet and fiber networks *Compatible with models -5811P/L and -5822P.



T-BERD/MTS-4000 two-slot handheld modular platform for testing fiber, copper, and multiple services

Key Features

- Up to 37 dB dynamic range in single-mode and 26 dB in multimode
- Quad-wavelength version with 850, 1300, 1310, and 1550 nm and a dual-wavelength version with 850 and 1300 nm
- Integrated continuous wave (CW) light source and power meter
- TIA/IEC pass/fail thresholds
- · Propagation delay measurement in multimode (TIA-568-C)
- Optimized for 10 MB to 40 GE testing
- Certifies Tier 2 premises networks**
- IEC 61280-4-1-compliant using an external modal controller
- · Ready for SLM, FTTA-SLM, and FTTH-SLM intelligent optical application software

Specifications

General (Typical at 25°C)			
Weight		0.4 kg (0.88 lb)	
Dimensions ($w \times h \times d$)		128x134x40 mm (5x5.28x1.58 in)	
Optical Interfaces			
Interchangeable optical connectors		FC, SC, DIN, LC, and ST	
Technical Characteristics		1	
Laser safety class (21 CFR)		Class 1	
Distance units		Kilometers, feet, and miles	
Group index range		1.300000 to 1.700000 in 0.00001 steps	
Number of data points		Up to 128,000 data points	
Distance measurement		Automatic or dual cursor	
Display range		0.5 m to 260 km	
Cursor resolution		1 cm	
Sampling resolution		4 cm	
Accuracy		±1 m ±sampling resolution ±1.10 ⁻⁵ x distance (Excluding group index uncertainties)	
Attenuation Measuremer	nt		
Automatic, manual, 2-point	, 5-point,	and LSA	
Display range		1.25 dB to 55 dB	
Display resolution		0.001 dB	
Cursor resolution		0.001 dB	
Linearity		±0.03 dB/dB	
Threshold		0.01 to 5.99 dB in 0.01 dB steps	
Reflectance/ORL Measure	ements		
Reflectance accuracy		±2 dB	
Display resolution		0.01 dB	
Threshold		-11 to -99 dB in 1 dB steps	
CW Source Option			
CW Source output power level		-3.5 dBm	
Operating modes		CW, 270 Hz, 330 Hz, 1 kHz, 2 kHz, TWINTest	
Power Meter Option			
Power level range	MM	-3 to -30 dBm	
	SM	–2 to –50 dBm	
Calibrated wavelengths	MM	850 and 1300 nm	
	SM	1310, 1490, 1550, 1625, and 1650 nm	
Measurement accuracy	MM ¹	±1 dB	
	SM	±0.5 dB	
Multimode and Quad OT) R Modu	les (Typical at 25°C)	
Central wavelength ²		850/1300±30 nm	1310/1550±20 nm
Pulse width		3 ns to 1 µs	3 ns to 20 µs
RMS dynamic range ³		26/24 dB	37/35 dB
Event dead zone ⁴		0.8 m	0.9 m
Attenuation dead zone⁵		4 m	4 m

Ordering Information

Description	Part Number		
Multimode and Quad OTDR Modules and Options			
Multimode 850, 1300 nm OTDR module	E4123MM		
Quad 850/1300/1310/1550 nm OTDR module	E4146QUAD		
Continuous and Modulated Source option	E41OTDRLS		
Power Meter option	E41OTDRPM		
Accessories			
EF modal controller for 50 µm MM fiber–SC/PC	EFJEF50CONSCPC		
EF modal controller for 50 µm MM fiber–FC/PC	EFJEF50CONFCPC		
Universal Optical Connectors			
Straight connectors (single-mode port)	EUNIPCFC, EUNIPCSC, EUNIPCST, EUNIPCDIN, EUNIPCLC		
8° angled connectors (single-mode port)	EUNIAPCFC, EUNIAPCSC, EUNIAPCDIN, EUNIAPCLC		
Straight connectors (multimode port)	EUNIPCFCMM, EUNIPCSCMM, EUNIPCSTMM, EUNIPCDINMM, EUNIPCLCMM		

1. Using a mode conditioner

2. Laser at 25°C

3. The one-way difference between the extrapolated backscattering level at the start of the fiber and the RMS noise level after 3-minutes averaging

4. Measured at $\pm 1.5~\text{dB}$ down from the peak of an unsaturated reflective event

5. Measured at $\pm 0.5~\text{dB}$ from the linear regression using an F/UPC-type reflectance

For more information on T-BERD/MTS-2000, -4000, and -5800 test platforms, please refer to their respective data sheets and brochures.

Contact your JDSU representative for additional information regarding your specific needs.



North America Latin America Asia Pacific EMEA Toll Free: 1 855 ASK-JDSU Tel: +1 954 688 5660 Tel: +852 2892 0990 Tel: +49 7121 86 2222 (1 855 275-5378) Fax: +1 954 345 4668 Fax: +852 2892 0770 Fax: +49 7121 86 1222

© 2014 JDS Uniphase Corporation Product specifications and descriptions in this document are subject to change without notice. 30168207 002 0714 QUAD.DS.FOP.TM.AE July 2014